

2004 Water Quality Assessment (Final) - Category 5 Listings for WRIA 62

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Medium	Remarks
62	42165	5	N	BROWNS CREEK Kalispel Tribe data (submitted by John Gross on 3/15/04), station BRN2 shows 6 samples in 2002 and 6 samples in 2003 exceeded the criterion.	GW43FI	4.431	34N	44E	23	Dissolved oxygen	Water	
62	42164	5	N	CALISPELL CREEK Kalispel Tribe data (submitted by John Gross on 3/15/04), station CAL1 shows that 2 of 4 samples (50.0%) collected in 2001 exceed the percentile criterion.	PX05BC	8.389	32N	43E	01	Fecal Coliform	Water	Name changed from CALISPELL CREEK, S.F. to CREEK on 01/28/05 per Comment from Kalispel Tribe. -kk
62	21766	5	N	CALISPELL CREEK, S.F. Kalispel Tribe unpublished data at station SFC1 (Steam crossing of Rd. 9205) show the maximum 7-day mean of daily maximum values was 22.7 from continuous measurements collected in 2002. Kalispel Tribe of Indians unpublished data show 1 excursions beyond the criterion from instantaneous measurements collected on 17 July 2002 at station SFC1 (Steam crossing of Rd. 9205).	PX05BC	17.139	32N	43E	26	Temperature	Water	
62	42159	5	N	CALISPELL CREEK, S.F. Kalispel Tribe data (submitted by John Gross on 3/15/04), station DCLU shows between 12/10/2002 and 11/12/2003 there were 109 days in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody; the maximum exceedance during this period was 27.91° Celcius for the 7-day period ending August 1, 2003.	PX05BC	10.025	32N	43E	12	Temperature	Water	
62	42160	5	N	CALISPELL CREEK, S.F. Kalispel Tribe data (submitted by John Gross on 3/15/04), station TWIGG shows between 6/8/2003 and 11/12/2003 there were 97 days in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody; the maximum exceedance during this period was 24.67° Celcius for the 7-day period ending August 2, 2003.	PX05BC	1.779	33N	43E	25	Temperature	Water	
62	38210	5	N	CEDAR (IONE) CREEK Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'lone Jim/Cedar' show excursions beyond the criterion from measurements collected in 1994, 1995 and 1996.	AS86PH	0.289	38N	43E	31	Dissolved oxygen	Water	A rationale submitted by Albertus Wasson on 16 December 2002 suggests the low dissolved oxygen values are a natural condition caused by a lower atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential. This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Remarks	Medium
62	38212	5	N	CEDAR (IONE) CREEK Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Ione Jim/Cedar' show excursions beyond the criterion from measurements collected in 1992, 1994 and 1995.	AS86PH	0.289	38N	43E	31	Temperature		Water
62	42166	5	N	HALFMOON CREEK Kalispel Tribe data (submitted by John Gross on 3/15/04), station HFM1 shows 3 samples in 2002 and 5 samples in 2003 exceeded the criterion.	JC56XK	2.532	34N	44E	34	Dissolved oxygen		Water
62	21710	5	N	LECLERC CREEK, EAST BRANCH Kalispel Tribe unpublished data at station EBL1 (First Bridge crossing and Rd. 3503) show the maximum 7-day mean of daily maximum values was 19.9 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'E Br Leclerc' show 1 excursion beyond the criterion from measurements collected in 1992. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station EBL1 (First Bridge crossing and Rd. 3503).	CG54YF	0	35N	44E	17	Temperature		Water
62	21711	5	N	LECLERC CREEK, EAST BRANCH Kalispel Tribe unpublished data at station EBL3 (First bridge crossing S. of Rd. 1935/3521 intersection) show the maximum 7-day mean of daily maximum values was 19.2 from continuous measurements collected in 2002. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station EBL3 (First bridge crossing S. of Rd. 1935/3521 intersection).	CG54YF	6.166	36N	44E	33	Temperature		Water
62	21715	5	N	LITTLE MUDDY CREEK Kalispel Tribe unpublished data at station LIM1 (Stream crossing of Rd 2705) show the maximum 7-day mean of daily maximum values was 18.1 from continuous measurements collected in 2002. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station LIM1 (Stream crossing of Rd 2705).	ZE63VQ	0	37N	43E	06	Temperature		Water
62	21717	5	N	LOST CREEK Kalispel Tribe unpublished data at station LOS1 (Stream crossing Hwy 20) show the maximum 7-day mean of daily maximum values was 20.9 from continuous measurements collected in 2002. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Lost Cr Site 1' show excursions beyond the criterion from measurements collected in 1992 and 1994. Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station LOS1 (Stream crossing Hwy 20).	EK49EK	0	36N	43E	22	Temperature		Water

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				Basis								
DO to	62	21866	5	N	MILL CREEK	SM32JD	0.302	35N	44E	33	Dissolved oxygen	Water
					Kalispel Tribe of Indians unpublished data show 4 excursions beyond the criterion from instantaneous measurements collected in 2002 at station MLC1 (Stream crossing of Leclerc Rd. N. and Rd. 1200).							During the assessment of data it was determined that WQ Policy 1-11 (updated 9/03) was overly restrictive for the number of years of data excursions needed to list for D.O. impairments. Based on a review of monitoring studies for
					Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Mill D3' show 1 excursion beyond the criterion from							statewide, it was determined that multiple (3 or more) excursions for at least two years of monitoring should be used as an alternative indicator that a waterbody continues
					measurements collected in 1994.							be impaired. (Braley, ECY/WQP, 2003)
24-	62	43357	5	N	PEND OREILLE RIVER	DS54SI	110.961	33N	44E	30	Aldrin	Tissue
					USEPA National Lake Fish Tissue Study shows an excursion beyond the National Toxics Rule criterion in Brown Trout composite samples collected on 07/23/2002 at location (Near East Bank).							
	62	8609	5	Y	PEND OREILLE RIVER	DS54SI	59.673	37N	43E	05	pH	Water
					Pelletier and Coots, 1990. 4 excursions beyond the criterion out of 7 samples at RM 39 in 1988.							Multiple excursions beyond the criterion sampled within a
24-												hour period are considered a single excursion per Water Quality Program Policy.
	62	8611	5	Y	PEND OREILLE RIVER	DS54SI	71.559	36N	43E	10	pH	Water
					Pelletier and Coots, 1990. 4 excursions beyond the criterion out of 7 samples at RM 48 in 1988.							Multiple excursions beyond the criterion sampled within a
												hour period are considered a single excursion per Water Quality Program Policy.
24-	62	8613	5	Y	PEND OREILLE RIVER	DS54SI	96.427	34N	43E	12	pH	Water
					Pelletier and Coots, 1990. 5 excursions beyond the criterion out of 7 samples at RM 62 in 1988.							Multiple excursions beyond the criterion sampled within a
												hour period are considered a single excursion per Water Quality Program Policy.

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
				Basis								
62	8617	5	Y	PEND OREILLE RIVER	DS54SI	138.456	31N	46E	07	Temperature	Water	
				Pend Oreille PUD, 2002., station (Pend Oreille River near Newport) shows between 4/4/2002 and 8/5/2002 there were 20 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 22.6 °Celcius for the 7-day period ending July 30, 2002.					The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A			
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 62A150 (PEND OREILLE RIVER AT NEWPORT) shows 6 excursions beyond the criterion out of 59 samples collected between 1993 - 2001 measured on these dates: 00/08/07, 94/08/02, 95/08/07, 96/08/05, 96/09/03, 97/08/05.								
				Pelletier and Coots, 1990. Multiple excursions beyond the criterion at RM 88 in 1988.								
temperature												
conditions.												
62	11452	5	N	PEND OREILLE RIVER	DS54SI	41.694	39N	43E	21	Temperature	Water	
				Hallock (2001) Dept. of Ecology Ambient Monitoring Station 62A090 (PEND OREILLE AT METALINE FLLS) shows 3 excursions beyond the criterion out of 34 samples collected between 1993 - 2001 measured on these dates: 00/08/07, 94/08/03, and 95/08/08.					The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A			
temperature												

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
				Basis								
62	42512	5	N	PEND OREILLE RIVER	DS54SI	53.916	38N	43E	20	Temperature	Water	
<p>Pend Oreille PUD, 2003., station (Box Canyon Dam tailrace) shows between 3/31/2003 and 7/13/2004 there were 3 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 20.3 °Celcius for the 7-day period ending July 13, 2003.</p> <p>Pend Oreille PUD, 2002., station (Box Canyon Dam tailrace) shows between 3/28/2002 and 8/11/2002 there were 20 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 22.9 °Celcius for the 7-day period ending August 6, 2002.</p>												<p>The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A</p> <p>TMDL is underway that will help determine natural</p> <p>(Braley, 4/05))</p>
62	42513	5	N	PEND OREILLE RIVER	DS54SI	52.777	38N	43E	19	Temperature	Water	
<p>Pend Oreille PUD, 2002., station (Box Canyon Dam forebay) shows between 4/15/2002 and 8/5/2002 there were 12 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 22.9 °Celcius for the 7-day period ending August 3, 2002.</p>												<p>The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A</p> <p>TMDL is underway that will help determine natural</p> <p>(Braley, 4/05))</p>

WRIA	Listing ID	Category	98 List?	Waterbody Name	Location Information					Parameter	Medium	Remarks
				Basis								
62	42515	5	N	PEND OREILLE RIVER	DS54SI	26.027	40N	43E	10	Temperature	Water	
<p>Kimbrough, R.A., et.al., 2002, station (Boundary Dam forebay) shows between 1/1/2002 and 9/30/2002 there were 59 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 23 °Celcius for the 7-day period ending July 30, 2002.</p> <p>Kimbrough, R.A., et.al., 2001, station (Boundary Dam forebay) shows between 1/1/2001 and 12/31/2001 there were 72 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 23.4 °Celcius for the 7-day period ending August 18, 2001.</p> <p>Kimbrough, R.A., et.al., 2000, station (Boundary Dam forebay) shows between 1/1/2000 and 12/31/2000 there were 24 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 24 °Celcius for the 7-day period ending August 14, 2000.</p>												<p>The Pend Oreille River originates from surface-level outflows from a large natural lake that may cause temperature criteria exceedances under natural conditions. A rationale with supporting documentation submitted by Lincoln Loehr on 17 December 2002 suggests the high temperature values are a natural condition caused by effects of Lake Pend Oreille upstream. However, there currently is insufficient data to rule out the possibility that human activities have increased water temperatures over natural conditions in excess of allowable limits, such as from dams or point source discharges located on the river. This river also flows into Canada's and the Kalispell Tribe jurisdictions. A</p> <p>TMDL is underway that will help determine natural</p> <p>(Braley, 4/05))</p>
62	43539	5	N	PEND OREILLE RIVER	DS54SI	24.792	40N	43E	03	Temperature	Water	
<p>Kimbrough, R.A., et.al., 2002, station (Boundary Dam tailrace) shows between 1/1/2002 and 9/30/2002 there were 37 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 22.7 °Celcius for the 7-day period ending August 1, 2002.</p> <p>Kimbrough, R.A., et.al., 2001, station (Boundary Dam tailrace) shows between 1/1/2001 and 12/31/2001 there were 67 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 23.1 °Celcius for the 7-day period ending August 19, 2001.</p> <p>Kimbrough, R.A., et.al., 2000, station (Boundary Dam tailrace) shows between 1/27/2000 and 12/31/2000 there were 51 occurrences in which the 7-day mean of daily maximum value exceeded the temperature criterion for this waterbody required by WAC173-201A-130 paragraph (79); the maximum exceedance for this period was 24 °Celcius for the 7-day period ending August 12, 2000.</p>												
62	6287	5	N	PEND OREILLE RIVER	DS54SI	53.916	38N	43E	20	Total Dissolved Gas	Water	
<p>Pend Oreille PUD, 2003., data from station (Box Canyon Dam tailrace) show between 3/20/2003 and 7/7/2003 this waterbody exceeded the criterion 66 of 102 days.</p> <p>Pend Oreille PUD, 2002., data from station (Box Canyon Dam tailrace) show between 3/28/2002 and 8/5/2002 this waterbody exceeded the criterion 89 of 125 days.</p> <p>Unpublished data from U.S. Geological Survey shows 58 days exceed the criteria out of 91 days during May-July 2000.</p>												
62	42516	5	N	PEND OREILLE RIVER	DS54SI	24.792	40N	43E	03	Total Dissolved Gas	Water	
<p>Kimbrough, R.A., et.al., 2002, data from station (Boundary Dam tailrace) show between 9/7/2002 and 9/30/2002 this waterbody exceeded the criterion 10 of 24 days.</p> <p>Kimbrough, R.A., et.al., 2001, data from station (Boundary Dam tailrace) show between 8/29/2001 and 9/30/2001 this waterbody exceeded the criterion 10 of 33 days.</p>												

temperature

conditions.

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Remarks	Medium
62	42517	5	N	PEND OREILLE RIVER	DS54SI	52.777	38N	43E	19	Total Dissolved Gas		Water
Pend Oreille PUD, 2003., data from station (Box Canyon Dam forebay) show between 3/20/2003 and 7/7/2003 this waterbody exceeded the criterion 16 of 96 days. Pend Oreille PUD, 2002., data from station (Box Canyon Dam forebay) show between 4/8/2002 and 8/5/2002 this waterbody exceeded the criterion 33 of 99 days.												
62	42518	5	N	PEND OREILLE RIVER	DS54SI	138.456	31N	46E	07	Total Dissolved Gas		Water
Pend Oreille PUD, 2003., data from station (Pend Oreille River near Newport) show between 3/20/2003 and 7/7/2003 this waterbody exceeded the criterion 28 of 100 days. Pend Oreille PUD, 2002., data from station (Pend Oreille River near Newport) show between 3/28/2002 and 8/5/2002 this waterbody exceeded the criterion 40 of 119 days.												
62	43383	5	N	PEND OREILLE RIVER	DS54SI	110.961	33N	44E	30	Total PCBs		Tissue
USEPA National Lake Fish Tissue Study shows an excursion beyond the National Toxics Rule criterion in Brown Trout composite samples collected on 07/23/2002 at location (Near East Bank).												
62	38297	5	N	RUBY CREEK	MY62NH	0.68	35N	43E	10	Dissolved oxygen		Water
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Ruby (G.S.)' show excursions beyond the criterion from measurements collected in 1994, 1996, 1997, 1998 and 1999.												
Kalispel Tribe of Indians unpublished data show 2 excursions beyond the criterion from instantaneous measurements collected in 2002 at station RUB1 (0.3 mi. up Rd. 2489 from intersection of HWY 20).											A rationale submitted by submitted by Albertus Wasson on 16 December 2002 suggests the low dissolved oxygen	
											are a natural condition caused by a high atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential.	
											This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.	
62	21764	5	N	RUBY CREEK	MY62NH	9.97	35N	43E	08	Temperature		Water
Kalispel Tribe unpublished data at station RUB2 (Intersection of Rd. 423 and 2489) show the maximum 7-day mean of daily maximum values was 18.1 from continuous measurements collected in 2002.												
Kalispel Tribe of Indians unpublished data show no excursions beyond the criterion from instantaneous measurements collected in 2002 at station RUB2 (Intersection of Rd. 423 and 2489).												
Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Ruby (G.S.)' show excursions beyond the criterion from measurements collected in 1996, 1997 and 1998.												

WRIA	Listing ID	Category	98 List?	Waterbody Name Basis	Location Information					Parameter	Medium	Remarks
62	6727	5	Y	SKOOKUM CREEK Coots and Willms, 1991. 2 excursions beyond the upper criterion at station SK4 on 7/24/90 and 8/14/90.	PT25LK	2.017	32N	44E	03	Fecal Coliform	Water	Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
62	6728	5	Y	SKOOKUM CREEK Coots and Willms, 1991. 2 excursions beyond the upper criterion at station SK5 on 7/24/90 and 8/14/90.	PT25LK	5.418	33N	44E	33	Fecal Coliform	Water	Data is only available in hardcopy format. The water segment is listed as Category 5 based on the 1998 assessment.
62	38330	5	N	SULLIVAN CREEK Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Sullivan Site 5 Bridge' show excursions beyond the criterion from measurements collected in 1993, 1994, and 1996.	SN79HL	6.74	39N	44E	30	Dissolved oxygen	Water	<p>A rationale submitted by Albertus Wasson on 16 December 2002 suggests the low dissolved oxygen values are a natural condition caused by a lower atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential.</p> <p>This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.</p> <p>Ecology staff reviewed this listing in 2003 for natural conditions, but could not rule out the possibility that human activities contributed to the excursion(s).</p>
62	38339	5	N	SULLIVAN CREEK, N.F. Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'N FK Sullivan' show excursions beyond the criterion from measurements collected in 1996, 1999 and 2002.	TN12RP	0	39N	43E	23	Dissolved oxygen	Water	<p>A rationale submitted by Albertus Wasson on 16 December 2002 suggests the low dissolved oxygen values are a natural condition caused by a lower atmospheric pressure at higher elevations and warm temperatures that reduce the saturation potential.</p> <p>This waterbody is part of a TMDL study that will determine whether or not excursions are due to natural conditions.</p>
62	42167	5	N	TACOMA CREEK Kalispel Tribe data (submitted by John Gross on 3/15/04), station TAC1 shows 2 samples in 2002 and 5 samples in 2003 exceeded the criterion. Kalispel Tribe of Indians unpublished data show 3 excursions beyond the criterion from instantaneous measurements collected on 13 Nov 2002 at station TAC1 (First stream crossing Rd. 2389). Colville National Forest data (submitted by Albertus Wasson on 16 December 2002) at the station named 'Tacoma Site 1' show excursions beyond the criterion from measurements collected in 1994 and 1996.	OE10VI	12.22	34N	43E	22	Dissolved oxygen	Water	